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Confirmation No.: 5650
Group Art Unit: 2651
Telephone: 360-527-1400

Replacement Sheet 1 of 15 sheets

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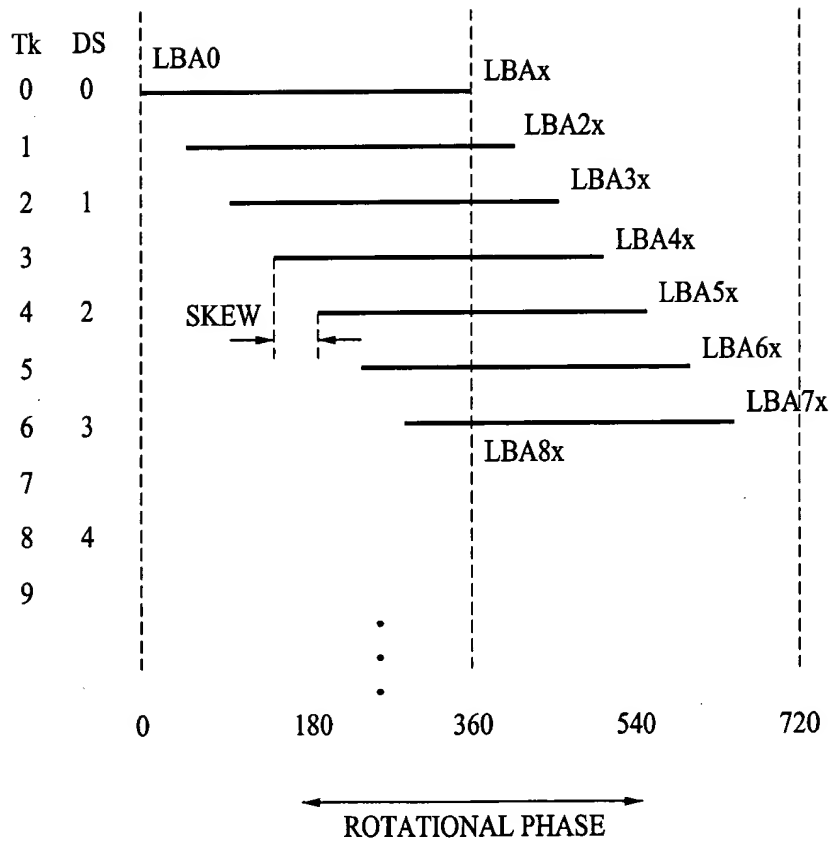


Fig. 1
PRIOR ART

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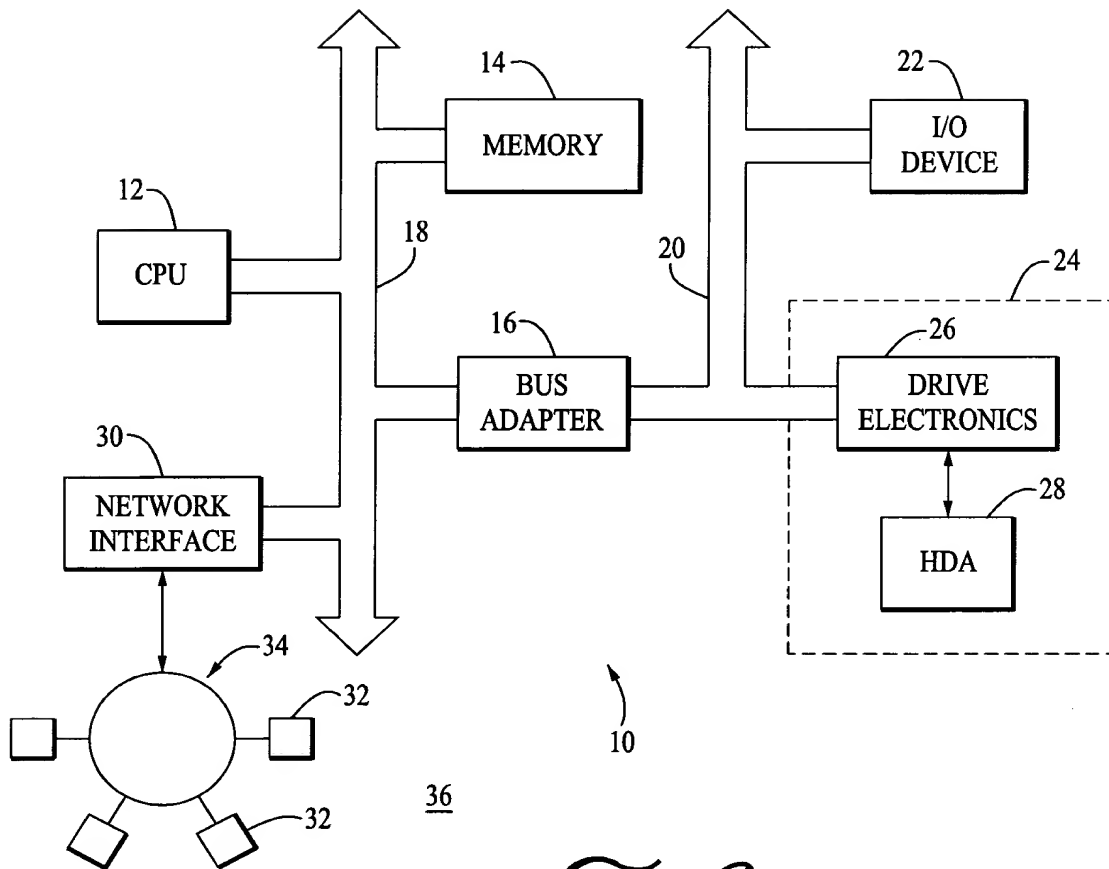


Fig. 2

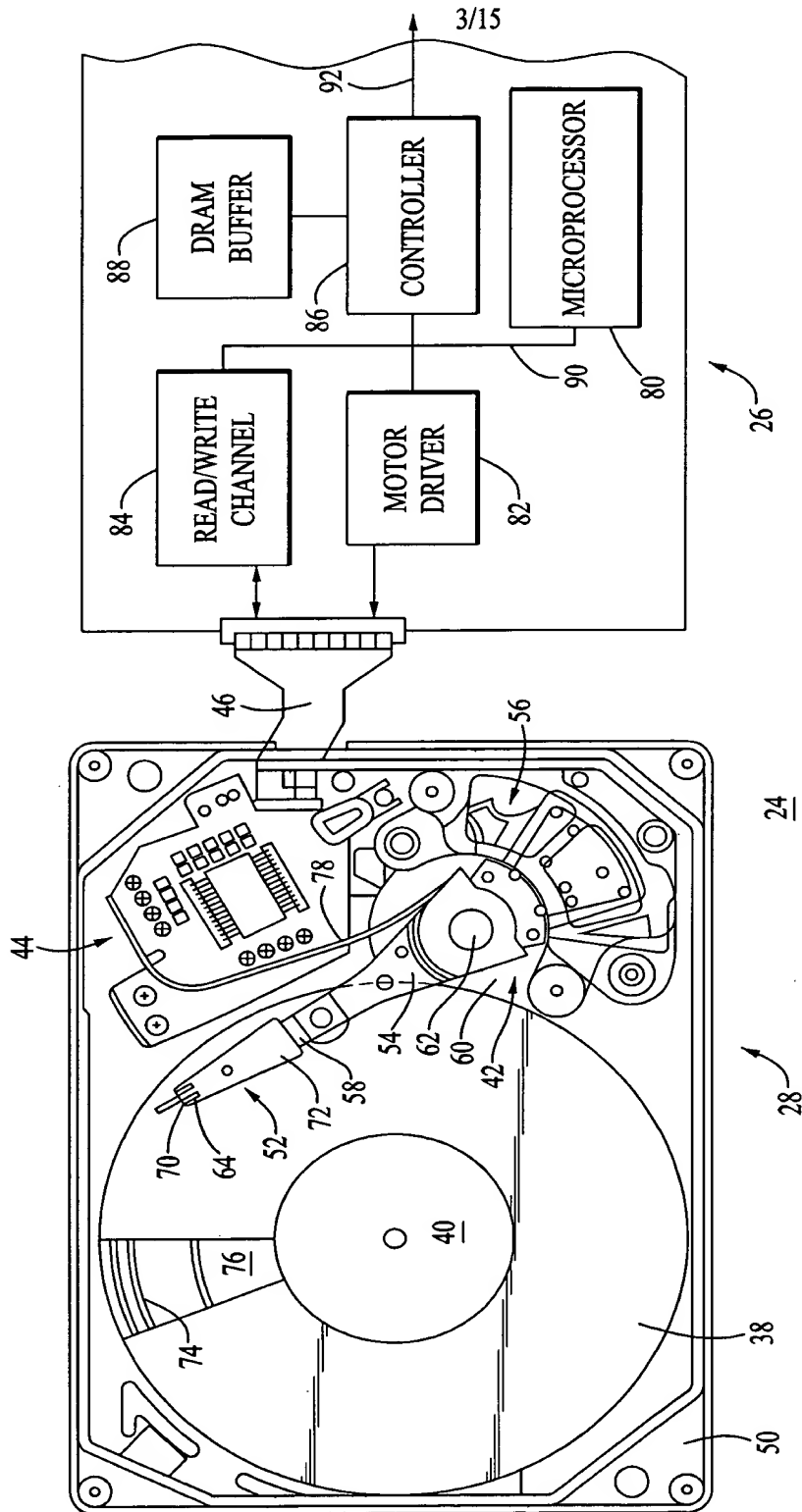


Fig. 3

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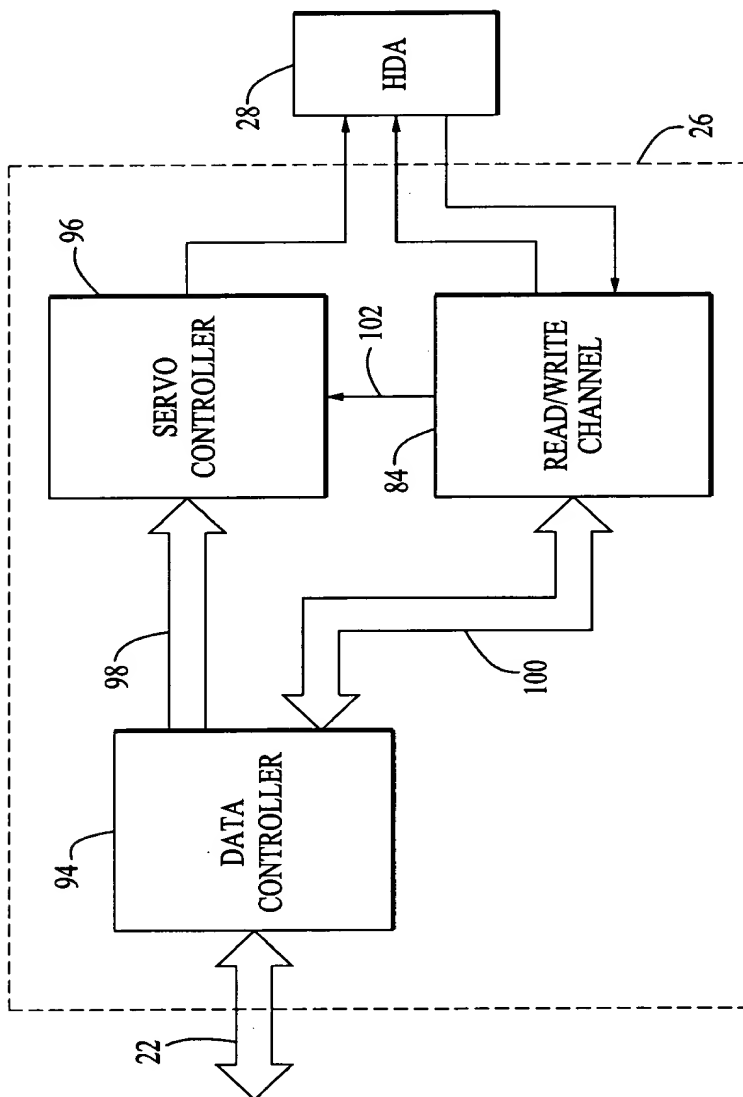


FIG. 4

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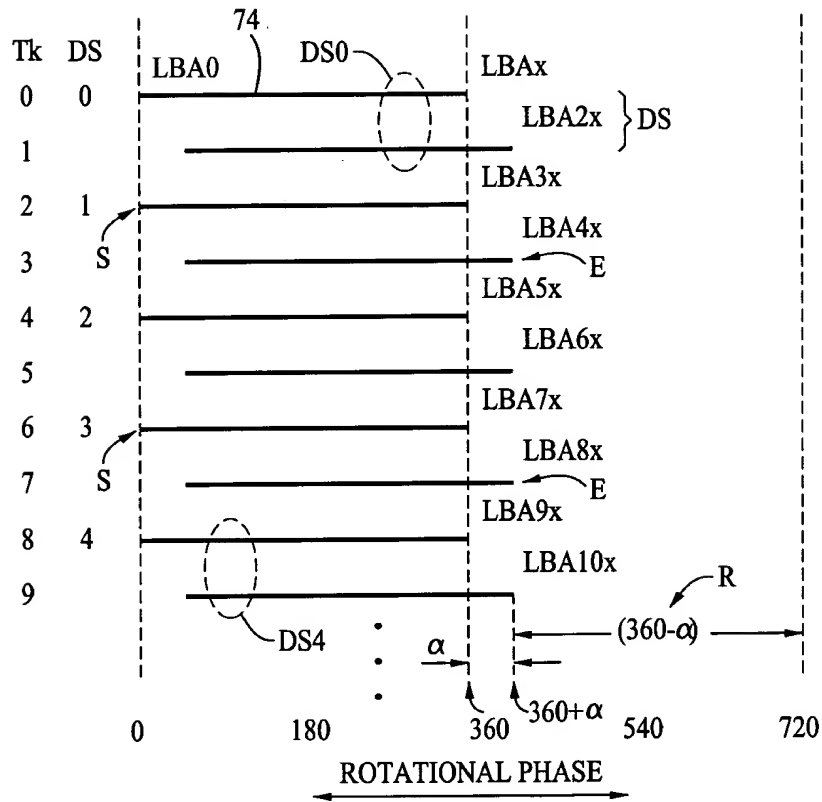


FIG. 5

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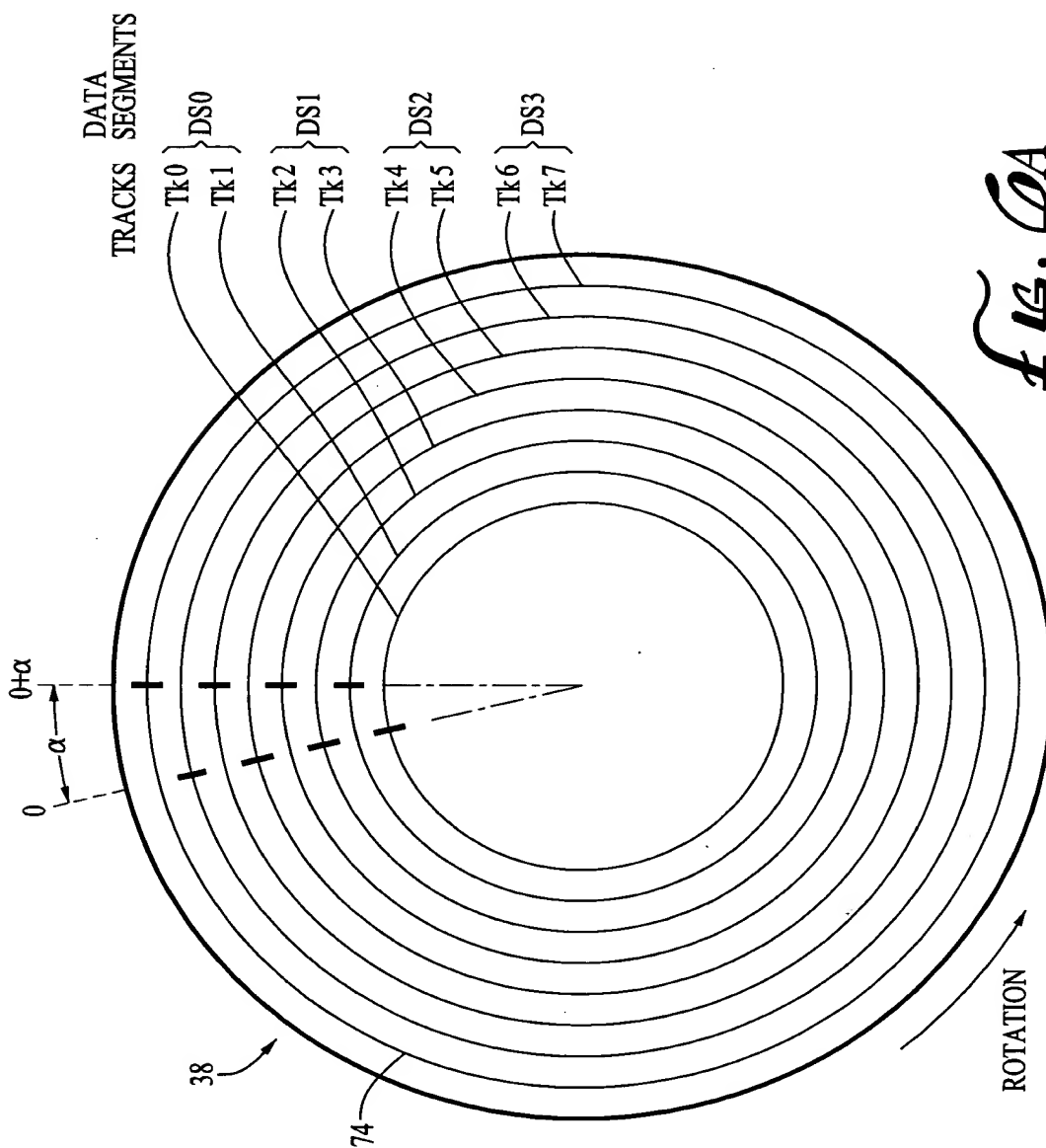


FIG. 6A

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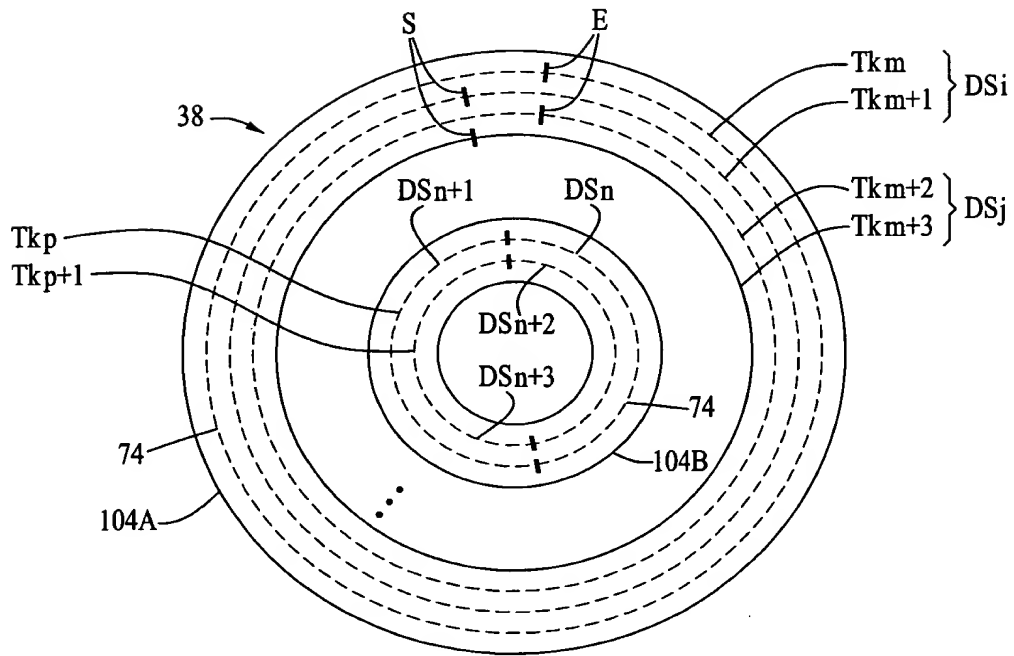


FIG. 12B

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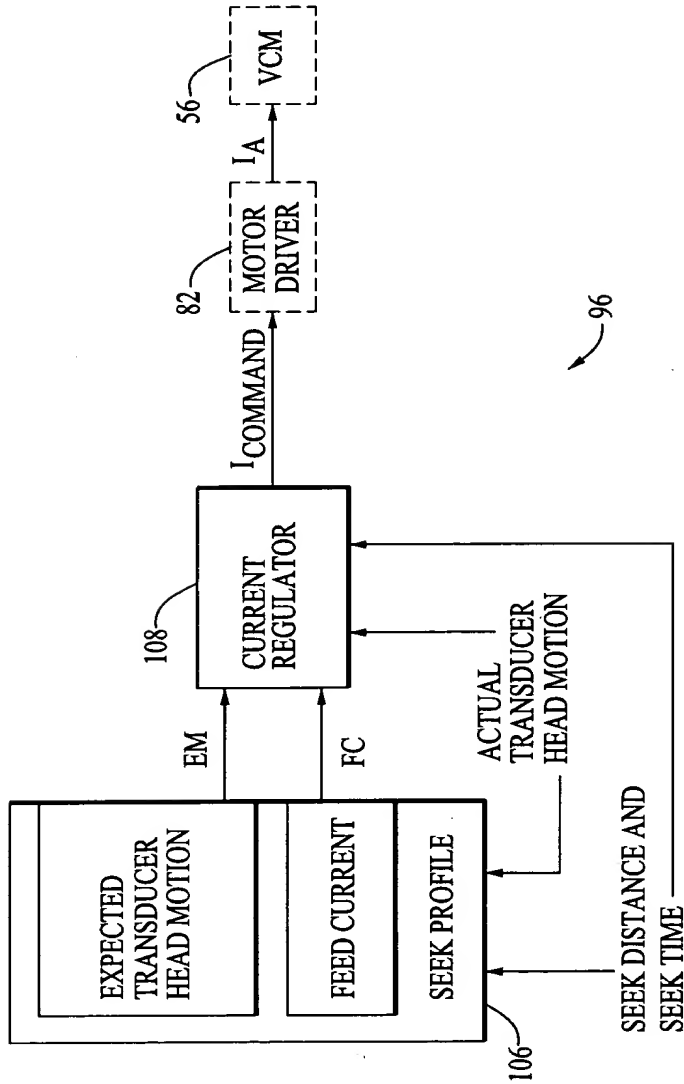


Fig. 7

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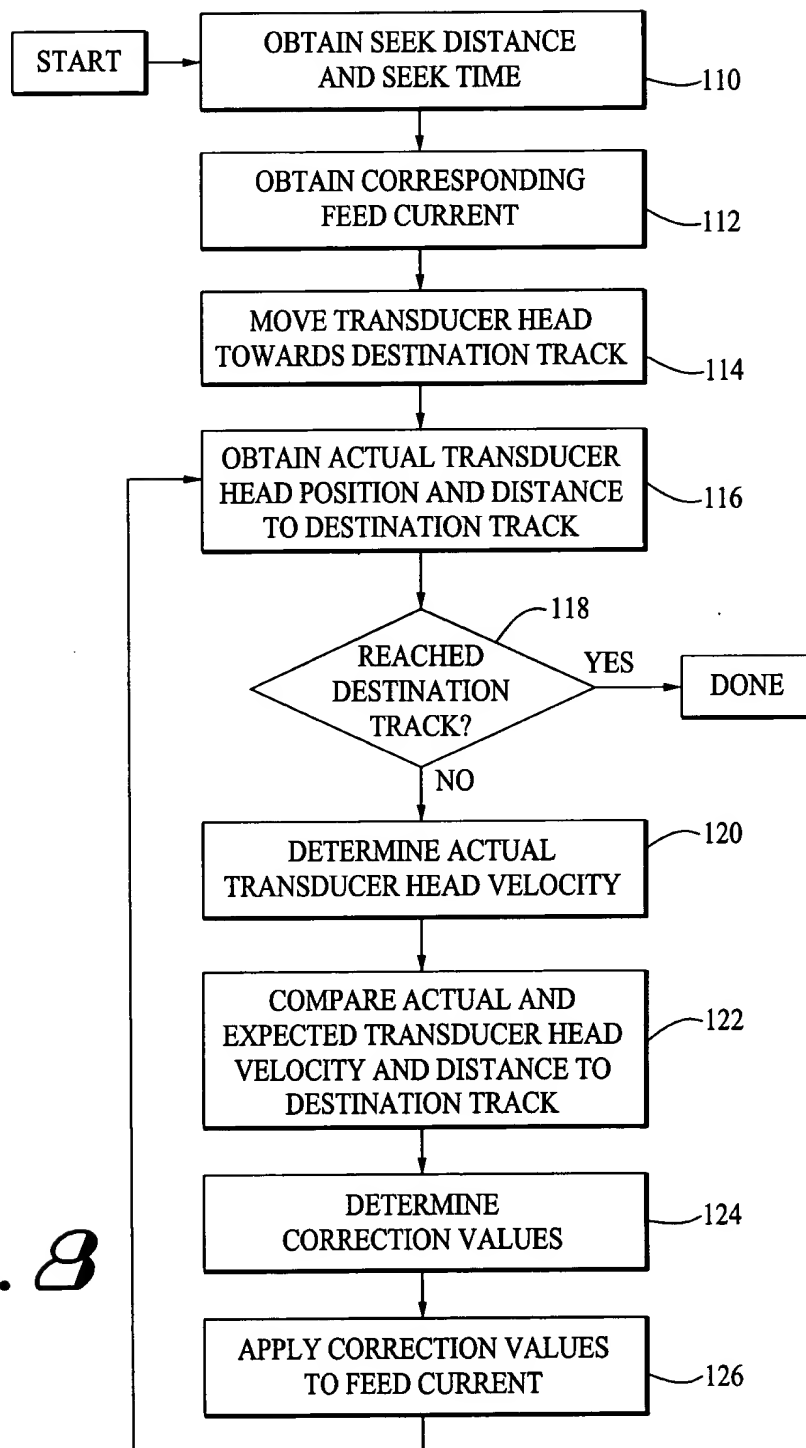


Fig. 8

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SUMMARY OF VARIOUS SOLUTIONS - 2 TRACKS PER DS
8.4 AVG SEEK TIME
11 TREV

SKEW MODULUS	SKEW FACTOR	SKEW TIME	ROTATION PHASE	ROTATION TIME, MSEC	ROTATION ON	AVG RATE, MBPS
					AVG SEEK TIME	
17	6	3.88	0.647	7.12	0.85	7.82
17	5	3.24	0.706	7.76	0.92	8.03
18	5	3.08	0.722	7.94	0.95	8.07
21	5	2.62	0.762	8.38	1.00	8.19
17	4	2.59	0.765	8.41	1.00	8.2
22	5	2.50	0.773	8.50	1.01	8.23
18	4	2.44	0.778	8.56	1.02	8.25
23	5	2.39	0.783	8.61	1.02	8.26
19	4	2.32	0.789	8.68	1.03	8.29
20	4	2.20	0.800	8.80	1.05	8.32
21	4	2.10	0.810	8.90	1.06	8.35
32	6	2.06	0.813	8.94	1.06	8.36
64	12	2.06	0.813	8.94	1.06	
128	24	2.06	0.813	8.94	1.06	
256	48	2.06	0.813	8.94	1.06	
512	96	2.06	0.813	8.94	1.06	
1024	191	2.05	0.813	8.95	1.07	

Fig. 9A

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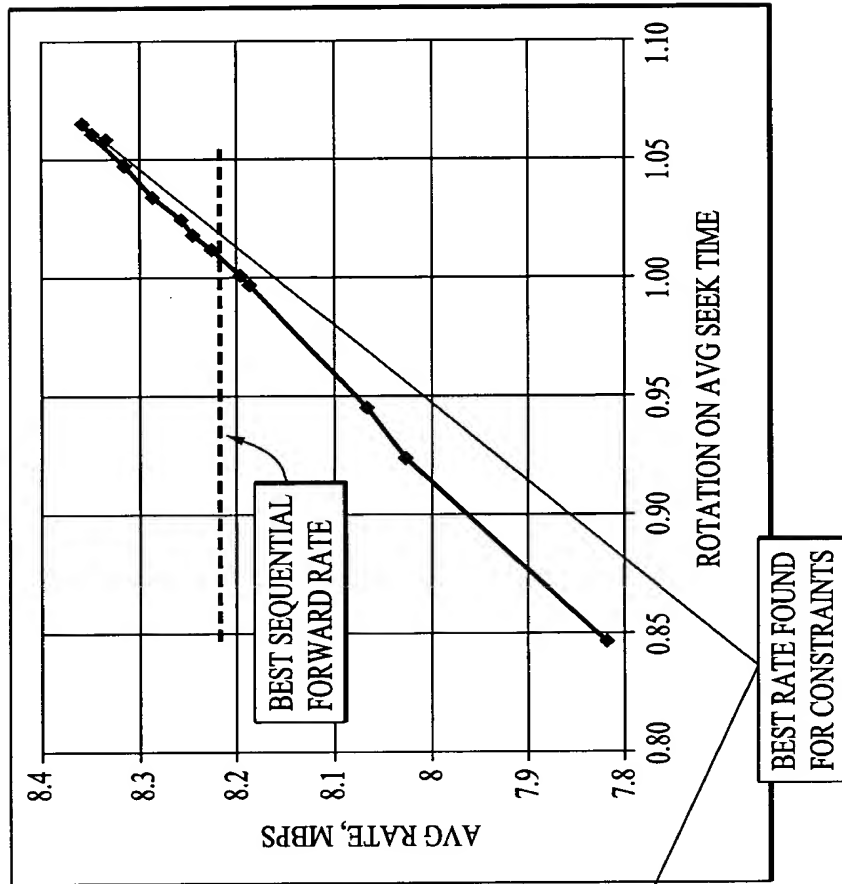


fig. 9B

1.7% IMPROVEMENT OVER BEST SEQUENTIAL RATE
 7% INCREASE OVER THIS RANGE

		ROTATION ON		ROTATION		ROTATION		AVG SEEK		AVG RATE,	
		SKEW		SKEW		ROTATION		AVG SEEK		AVG RATE,	
		MODULUS FACTOR		TIME		PHASE		TIME, MSEC		TIME	
32	6	2.06	0.813	8.94	1.06	8.36					

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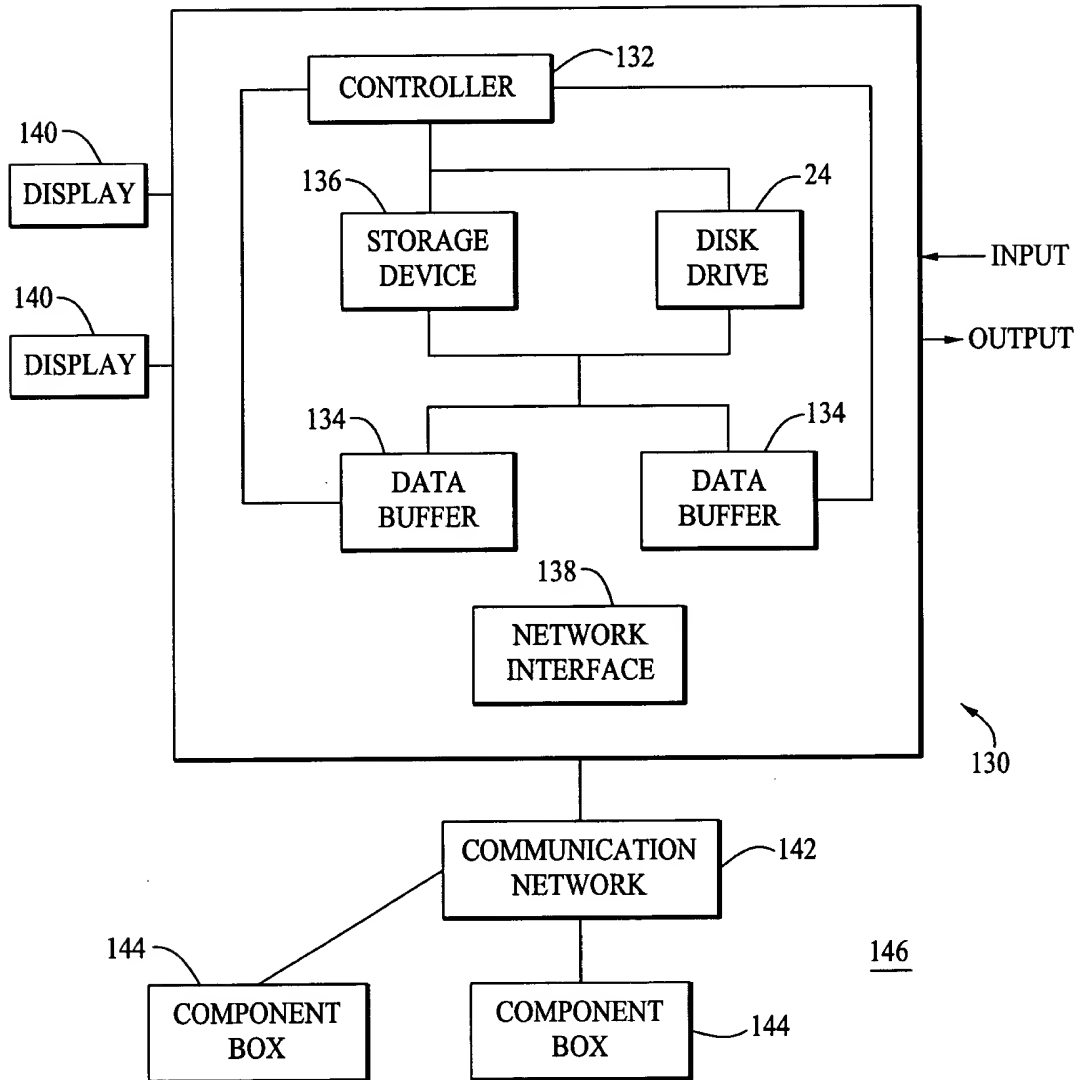


Fig. 10

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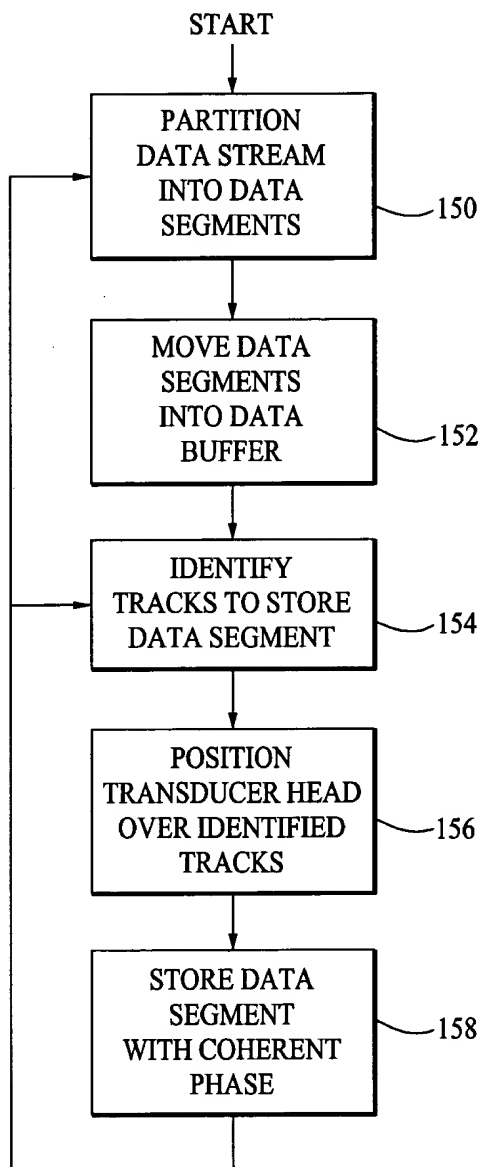


Fig. 11

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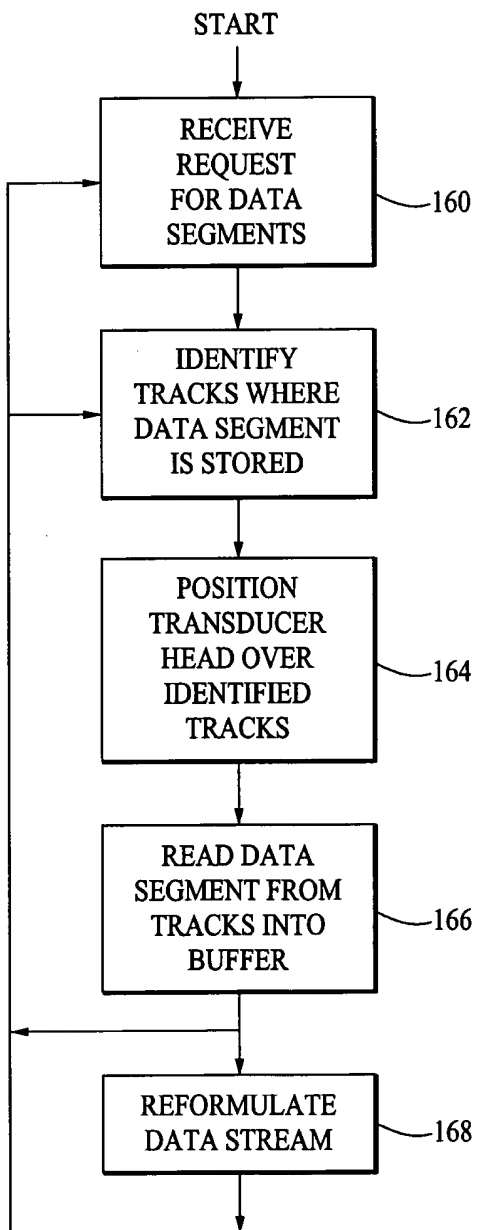


Fig. 12

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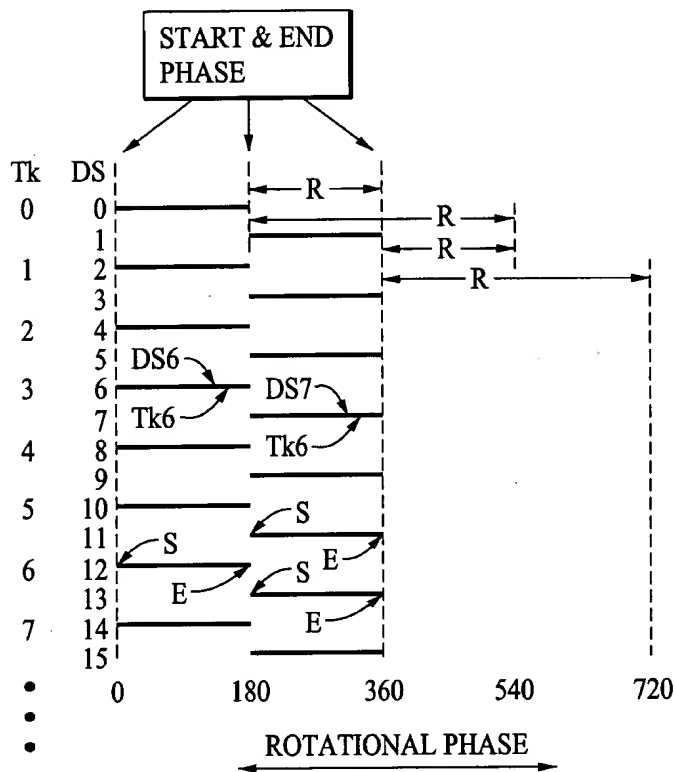


Fig. 13A

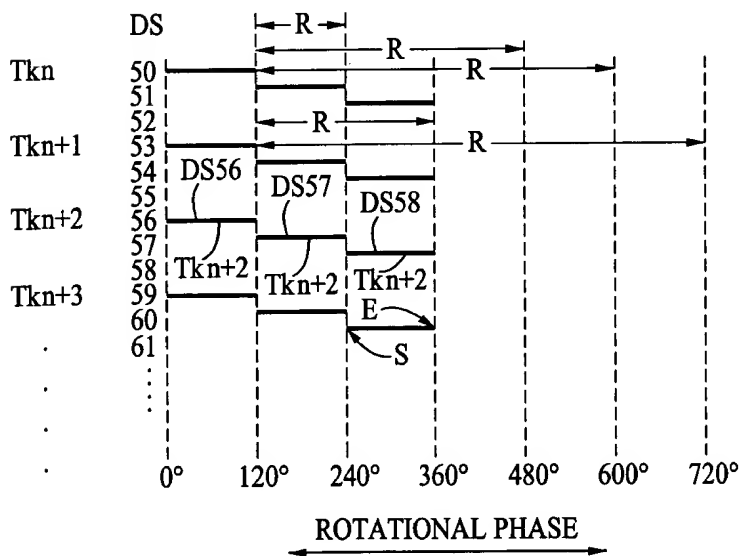


Fig. 13B